



# Hunters Point Naval Shipyard



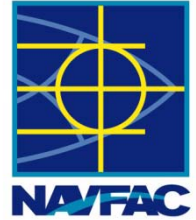
## Soil Vapor Update Parcel UC-1



BCT Meeting  
April 25, 2013



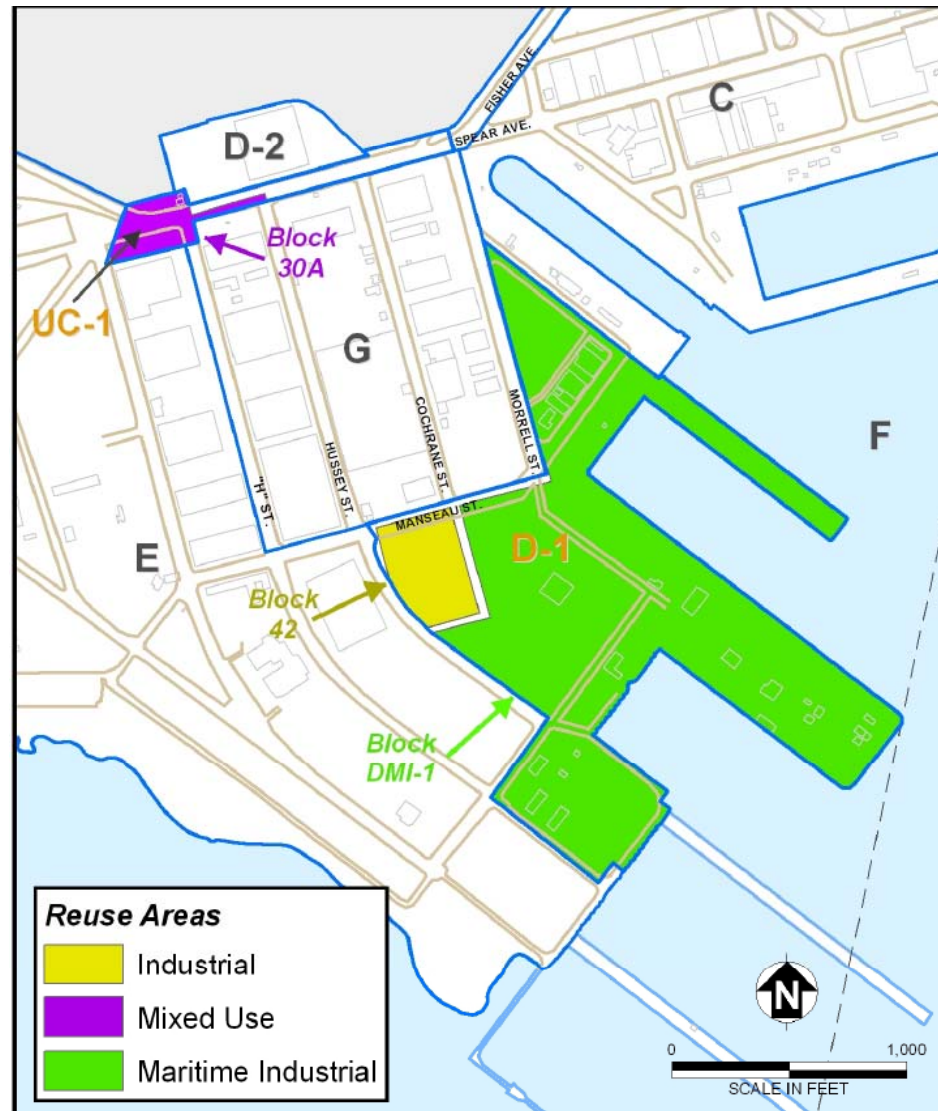
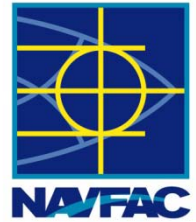
# Overview



- Comments on the UC-1/2 RACR in regards to resizing the ARIC at Parcel UC-1 and review of Parcels D-1 and UC-1 ROD requirements
- Results of soil vapor survey for Parcels G what it means for UC-1
- Options for addressing soil vapor risk in Parcel UC-1



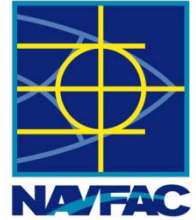
# Parcel Map



Hunters Point Naval Shipyard BCT Meeting – April 25, 2013



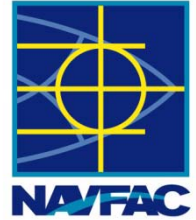
# Review of D-1/UC-1 ROD Requirements



- The Final ROD for Parcels D-1 and UC-1 (Navy, 2009) states:  
*“Soil vapor surveys will be conducted for the following purposes:*
  - *To evaluate potential vapor intrusion risks,*
  - *To identify COCs for which risk-based numeric action levels for VOCs in soil gas would be established (based on a cumulative risk of  $10^{-6}$ ),*
  - *To identify where the initial areas requiring institutional controls (ARIC) for VOCs would be retained and where they would be released, and*
  - *To evaluate the need for additional remedial action in order to remove ARICs.”*
- Section 2.5.1 Human Health Risk Assessment states “no chemical cancer risk was greater than  $10^{-6}$  within UC-1” in soil and groundwater
- Radiological risks were above  $10^{-6}$  in UC-1. A successful removal was completed and the Navy received a free-release for the parcel
- The Final LUC RD for Parcels UC-1 and UC-2 designates the entire footprint of Parcel UC-1 as an ARIC (related to VOC vapors and other restrictions)



# Soil Vapor Investigation Results

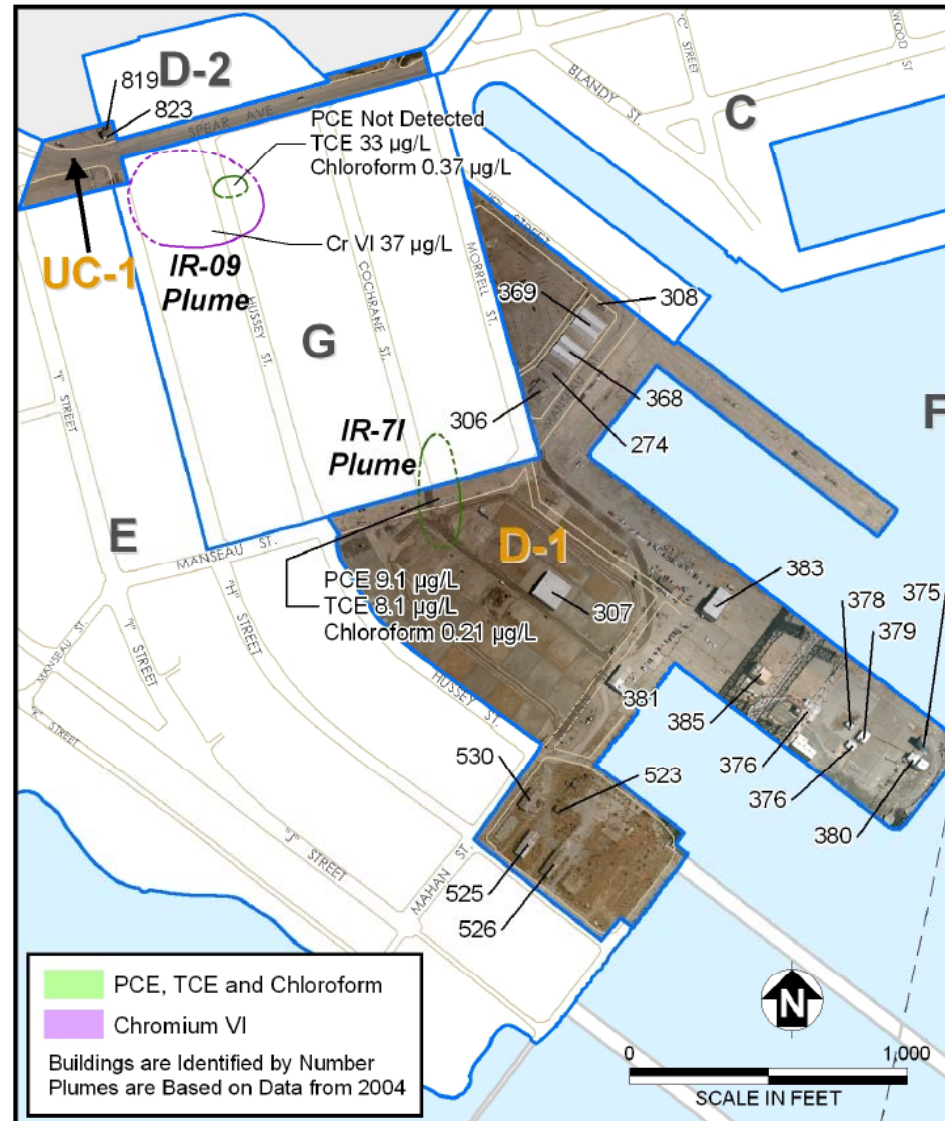


- The Navy published the results of the final "Soil Vapor Investigation in Support of Vapor Intrusion Assessment for Parcels B, D-1, G, and UC-2" in March 2013
- It was reported that Parcel G contains 2 one-acre risk grids in IR Site 33 that exceed the risk threshold of  $1 \times 10^{-6}$  for VOCs adjacent to (and cover portions of) Parcel UC-1 with elevated concentrations of benzene, TCE, vinyl chloride, and hexachloroethane



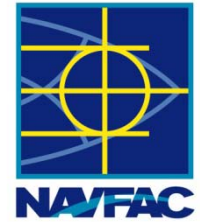


# Chemicals in Groundwater

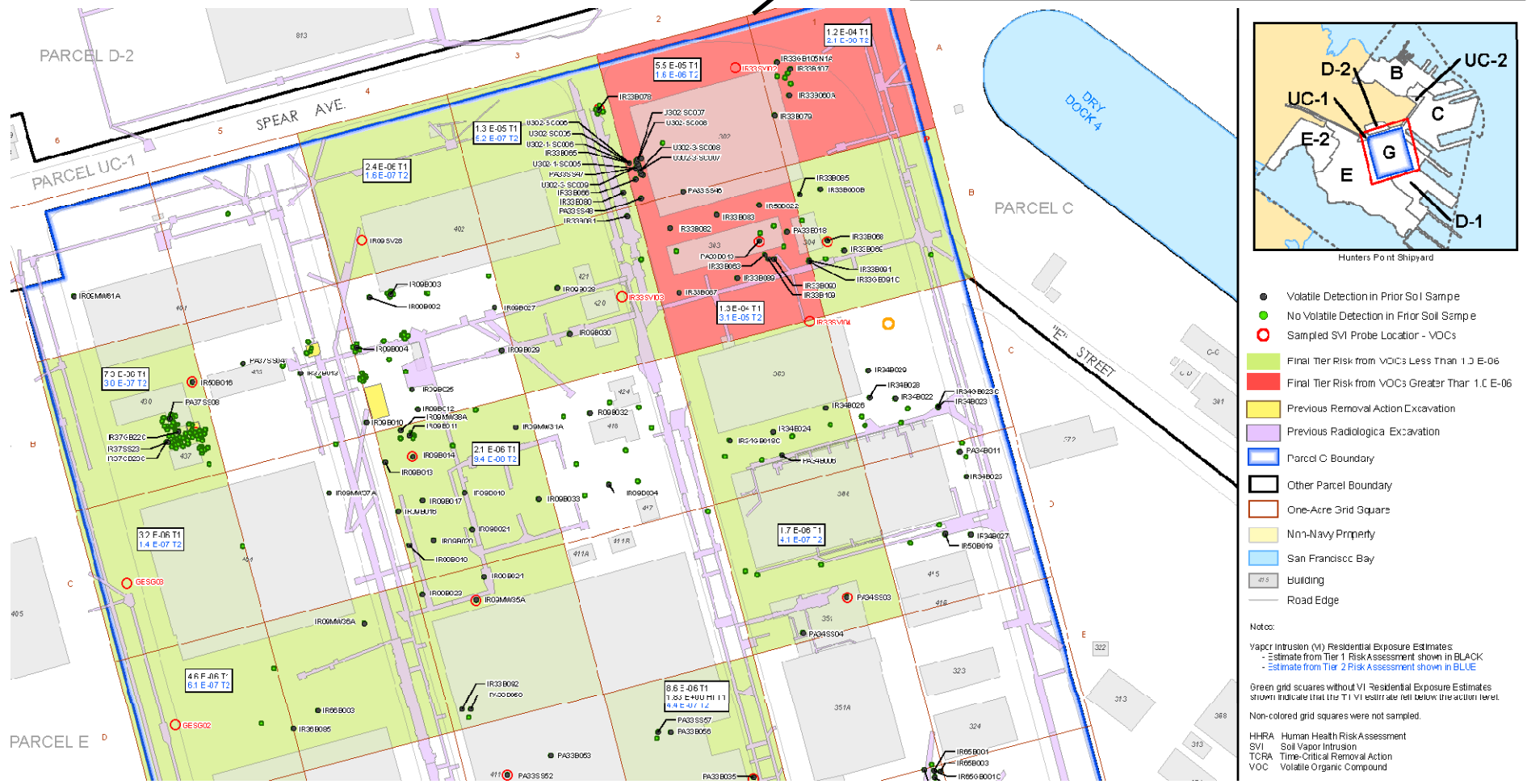




# Soil Vapor Investigation Results Near Parcel UC-1

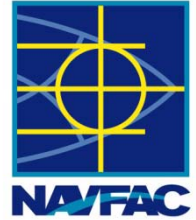


Risk grids adjacent to Parcel UC-1





## Facts about Soil Vapor in the Vicinity of UC-1



- Soil vapor surveys are to protect from indoor air intrusion; two small pump houses are located in the shovel head area
- No known groundwater plume located upgradient from UC-1
- Downgradient IR-09 plume has been previously delineated to show no soil vapor threats near the UC-1 /G border
- At time of study, heavy rains prevented soil vapor sampling in the entire parcel
- No data have been collected to date to allow for evaluation of vapor intrusion risks and refinement of the ARIC at Parcel UC-1





# Discuss

